

CLAIMS

1. Vacuum cleaner comprising a housing (1) and an exhaust opening (36) that is fluidically connected to an overpressure side of a motor/blower unit (27) which is surrounded by an insulating capsule (71)) and which is placed inside a blower housing (12) via duct (21) that has a duct section (20, 28) which is arranged while extending between the insulating capsule (71) and the blower housing (12), characterised in that at least one capsule part (14, 30) of the insulating capsule (71) is joined to a housing part, particularly of the blower housing (12) while forming a single piece.
2. The vacuum cleaner according to claim 1, characterised in that a first capsule part (14) is moulded on the housing (1), especially on a lower shell (2) of the vacuum cleaner.
3. The vacuum cleaner according to claim 2, characterised in that a first capsule part (14) has inwardly directed capsule wall sections (15a, 15b, 15c) which start from the lower shell (2).
4. The vacuum cleaner according to claim 3, characterised in that one capsule wall section (15a, 15b, 15c) has an opening (18, 18b) which connects an interior space bounded by the insulating capsule (71) to the duct (21).
5. The vacuum cleaner according to any one of claims 1 to 4, characterised in that the housing part of the blower housing (12) is formed by a housing half, especially by the lower shell (2) of the vacuum cleaner.
6. The vacuum cleaner according to claim 5, characterised in that the housing part of the blower housing (12) comprises a holder (16, 24) for receiving a bearing element (17, 26) for the motor/blower unit (27).
7. The vacuum cleaner according to claim 6, characterised in that the holder (24) is arranged at a dividing wall (6) which runs between a dust collecting compartment (11) and a blower compartment (12).

8. The vacuum cleaner according to claim 6 or 7, characterised in that the holder (24) is constructed as a half-shell-shaped ledge (25) which is open at the top and projects into the blower compartment (12).
9. The vacuum cleaner according to any one of claims 1 to 8, characterised in that the housing part of the blower housing (12) is a blower compartment cover (32) on which a second capsule part (30) of the insulating capsule is moulded.
10. The vacuum cleaner according to claim 9, characterised in that a main flow channel (33) for a main air flow is arranged so that it runs between the blower compartment cover (32) and the second capsule part (30).
11. The vacuum cleaner according to claim 10, characterised in that the main flow channel (33) is arranged so that it runs behind an end of the motor/blower unit (27) opposite to a suction opening (72).
12. The vacuum cleaner according to claim 10 or claim 11, characterised in that at least one auxiliary flow channel (61) for an auxiliary air flow is arranged so that it runs between the blower compartment cover (32) and the second capsule part (30).
13. The vacuum cleaner according to claim 12, characterised in that respectively at least one auxiliary flow channel (61a, 61b) is arranged so that it runs at the side of the motor/blower unit (27).
14. The vacuum cleaner according to claim 13, the auxiliary flow channels (61a, 61b) have a rectangular cross-section and extend substantially vertically.
15. The vacuum cleaner according to any one of claims 12 to 14, characterised in that the at least one auxiliary flow channel (61a, 61b) is fluidically connected to the main flow channel (33) via at least one intake opening (66).

16. The vacuum cleaner according to claim 15, characterised in that the auxiliary flow channel (61a, 61b) is connected to the main flow channel (33) such that an auxiliary air flow fed into the main flow channel (33) via the auxiliary flow channel (61a, 61b) crosses the main air flow.
17. The vacuum cleaner according to any one of the preceding claims, characterised in that the capsule wall sections (15a, 15b, 15c) of the first capsule part (14) and the capsule wall sections (29a, 29b, 29c) of the second capsule part (30) are arranged so that they overlap.
18. The vacuum cleaner according to claim 17, characterised in that a seal (65) is arranged between the overlapping capsule wall sections (15a, 15b, 15c, 29a, 29b, 29c).
19. The vacuum cleaner according to any one of the preceding claims, characterised in that an upper edge (64) of a housing part of the blower housing moulded on the lower shell (2) forms a seal arrangement (63) with a lower edge (62) of a blower housing cover (32).
20. The vacuum cleaner according to claim 20, characterised in that the seal arrangement (63) is a labyrinth seal, a sealing lip moulded on one of the edges (62, 64) or a sealing cord which is inserted in a groove formed on one of the edges (62, 64).